

WIRELESS COMMUNICATION SYSTEM WITH  
SIGNAL SELECTION AND COMBINATION

ABSTRACT OF THE DISCLOSURE

Portion-by-portion selection and/or combination of signals received from multiple base transceiver stations (BTSS) is used to improve the quality of reception in cellular communication systems. For any particular frame, bit, symbol, or chip, the highest-quality copy can be selected and concatenated onto the end of a sequence of data being generated by the system. In addition, the energies and/or voltages of multiple copies of bits or symbols received by multiple BTSS can be added and/or averaged in order to improve signal quality (e.g., increased signal-to-noise ratio (SNR) and/or signal-to-interference ratio (SIR)). In addition, a single communication system can utilize both selection and combination procedures. The resulting communication system reduces error rate and improves the quality of reception.